

INNOPSYS

Thursday, March 27, 2025
13:30 - 14:30, Lecture Hall 104

How to generate quantitative data from whole-brain IF imaging in record time?

Eric Dyrzcz and Perrine Borel

“Special attention should be paid when images are used for quantitative analysis, like colocalization studies, ratio imaging, deconvolution, and segmentation. In these cases, one should carefully characterize the field illumination.” (Faklaris et al, Journal of Cell Biology, 2021)

Innopsys, a leader in the field of fluorescence scanners, recently launched InnoQuant, a next-generation whole slide fluorescence scanner offering:

- Simultaneous 4-color quantitative imaging with unmatched uniformity, and full slide width imaging in one pass
- Optical sectioning with laser scanning and PMT detection for high signal-to-noise ratio in immunofluorescence

InnoQuant scans independently of staining intensity, making it faster and more efficient than traditional widefield scanners. It is ideal for studying CNS cell arrangements, neurodegenerative and neurodevelopmental diseases. Its seamless integration into workflows ensures rapid access to quantitative results.

The following topics will be addressed:

- How to generate multichannel large field images with a perfect focus in record time?
- How to generate quantitative images to study brain sections labeled with immunofluorescence?

Our experts will guide you through the complete experience, from acquiring a multi-labeled mouse brain section to obtaining quantitative data compared to standard widefield microscopy techniques.

